



Turning **solar** energy into **community** power

ABOUT

PVSmile addresses the urgent need to modernize photovoltaic systems and energy communities in line with Europe's energy transition objectives. While PV deployment continues to grow, **many systems remain technically rigid, digitally fragmented and socially underutilized.**

PVSmile bridges this gap by **integrating digital technologies, data spaces**, AI and governance innovation to enable PV systems to actively support grid stability, flexibility markets and community-driven energy services.

Through international collaboration and real-world demonstrations, PVSmile **delivers scalable solutions that strengthen energy sovereignty, citizen participation and climate resilience.**

NEWS



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Digitalizing Community-Integrated PV Systems for Smart, Inclusive and Grid-Ready Energy Communities

PVSmile Website is Live!

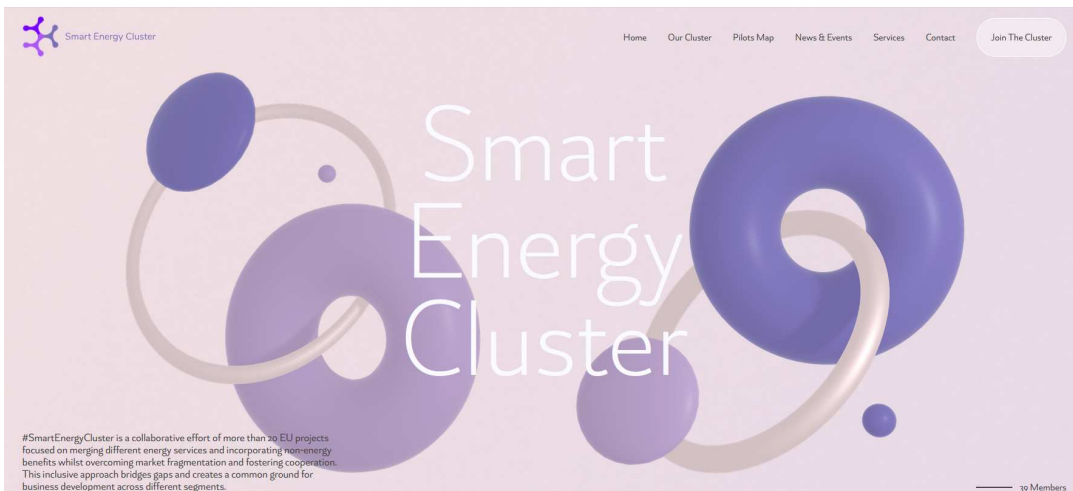
We're excited to share some big news! the **PVSmile website is officially live!**

PVSmile is a European Horizon research project bringing together 28 partners from across Greece, Italy, Spain, Portugal, Germany, the Netherlands, Slovenia, Türkiye, Tunisia and more, all working together to advance solar photovoltaic energy communities.

Funded by the European Climate, Infrastructure and Environment Executive Agency (CINEA) under the Horizon Europe programme.

[Do not miss our website](#)

Click here



PVSmile Proud Member of the Smart Energy Cluster!

#SmartEnergyCluster is a collaborative effort of more than 50 EU projects focused on merging different energy services and incorporating non-energy benefits whilst overcoming market fragmentation and fostering cooperation. This inclusive approach bridges gaps and creates a common ground for business development across different segments.

Visit the smart energy cluster website [here](#).

COMMUNICATION MATERIAL

PVSmile Logo Variations



PVSmile Roll Up Banner



Turning solar energy into community power

Objectives That Matter



Digitalizing the PV
Lifecycle



Enabling Smart
Grid Readiness



Empowering Energy
Communities



Unlocking Data-Driven
Energy Services

Large-Scale Pilot Demonstrations

FRONT RUNNER

Pilot Italy

Validates PVSmile in a complex regulatory market through digital twins, AI optimisation and coordination between energy communities and grid actors.

EU EARLY ADOPTER PILOTS

Pilot Spain

Tests large-scale community PV, smart power electronics and data-driven services to strengthen grid interaction and energy sharing.

FRONT RUNNER

Pilot Portugal

Adapts PVSmile digital tools to local energy communities, focusing on PV monitoring, flexibility and user engagement.

NON-EU EARLY ADOPTER PILOTS

Pilot Morocco

Tests community-integrated PV and digital solutions adapted to Mediterranean infrastructure and emerging energy markets.

EU EARLY ADOPTER PILOTS

Pilot Germany

Demonstrates advanced control and data services for community-owned PV in a mature, high-renewables energy market.

EU EARLY ADOPTER PILOTS

Pilot Slovenia

Evaluates lightweight digital solutions for small energy communities, supporting local coordination, autonomy and secure data use.

NON-EU EARLY ADOPTER PILOTS

Pilot Türkiye

Assesses the applicability of PVSmile technologies and governance models in a non-EU regulatory and market context.

FRONT RUNNER

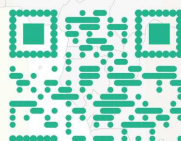
Pilot Greece

Demonstrates community-integrated PV systems with advanced digitalisation, smart grid control and inclusive governance in a real energy community.

NON-EU EARLY ADOPTER PILOTS

Pilot Tunisia

Explores the adaptability of PVSmile tools across climatic and regulatory conditions, strengthening local capacity and knowledge transfer.



info@pvsmile.eu PVSmile Project @PVSmile_Project @PVSmileProject

Meet the Partners



 Co-funded by the European Union

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Funded by the European Union. Views and opinions expressed are, however, those of the author(s) only and do not necessarily reflect those of the European Union or the European Research Executive Agency - REA. Neither the European Union nor REA can be held responsible for them.

PVSmile Brand Book & Flyer



[Download PVSmile materials here](#)

EVENTS



PVSmile Kick Off Meeting

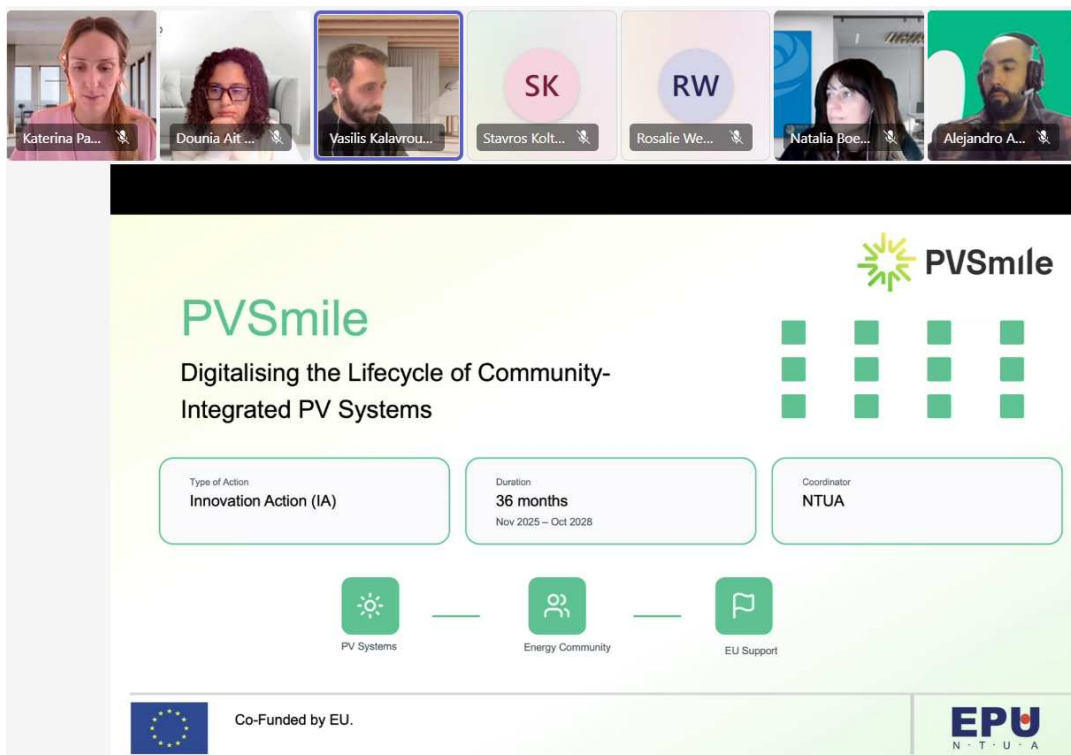
24-25 November 2025

Athens / Greece

The PVSmile project officially kicked off with its 1st Project Meeting, held on 24–25 November 2025 in Athens, Greece, bringing together project partners both on-site and online.

Over two intensive days, consortium members aligned on the **project vision, work plan, and initial implementation steps**, laying the foundation for a strong and collaborative start. Discussions focused in particular on community-centred photovoltaic lifecycle solutions, smart-grid-ready energy communities and AI-powered digital tools, data spaces, and cybersecurity.

PVSmile is a Horizon Europe project, coordinated by the Decision Support Systems (DSS) Lab of the National Technical University of Athens (EPU-NTUA). The project aims to transform photovoltaic systems from passive grid components into flexible, community-level assets fully integrated into smart electricity grids.



PVSMILE 4th Smart Energy Cluster Workshop

3 February 2026

Online

The PVSmile project participated at #SmartEnergyCluster 4th Collaboration Workshop, presenting the project, discussing about collaboration opportunities for big events like IISA 2026, EUSEW 2026 and Enlit Europe 2026.

[Check all PVSmile events here!](#)



PVSmile

Athens, Athens
Greece

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